INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/002080

A. CLASSIFICATION OF SUBJECT MATTER

IPC[7]: F02D-9/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC[7]: F02D USPC: 188/154 CPC: 123/7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms Epodoc, Derwent, Patent Abstracts of Japan, CPD, Key Words: Engine, Exhaust, Jake, Brake, Relief, Bypass

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No(s).
х	US 6,179,096 B1 (KINERSON, K. et al.) 30 January 2001 (30-01-2001) Page 5, Lines 13-34; Page 6, Lines 60-67; Page 7, Lines 1-64; Figures 1-6	1-8, 12-14, 16-30, 34-36, 38- 52, 56-58 and 60-66
A	US 6,223,534 B1 (ERDMANN, W. et al.) 1 May 2001 (01-05-2001)	All
* - A	US 6,109,027 B1 (SCHAEFER, N.) 29 August 2000 (29-08-2000)	All
. A	US 4,682,674 B1 (SCHMIDT, A.) 28 July 1987 (28-07-1987)	All
A A	US 2003/0131894 A1 (HECKT, R. et al.) 17 July 2003 (17-07-2003)	All .
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[] Further documents are listed in the continuation of Box C. [X]See patent family annex.

* Special categories of olted documents:

"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international

"L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other

document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the chaimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family

Date of the actual completion of the inte	ernational search
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14 March 2008 (14-03-2005)

Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec KIA 0C9

Date of mailing of the international search report

29 March 2005 (29-03-2005)

Authorized officer

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Facsimile No: 001(819)953-2476

INTERNATIONAL SEARCH REPORT

International application No.

Information on patent family members

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